Nov. 12, 1940. J. VULICH 2,221,730

SAFETY RAZOR

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Fig. 1.

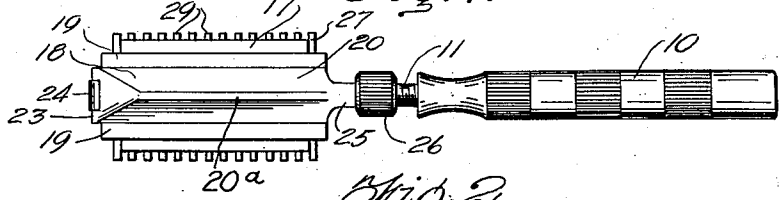


Fig. 2.

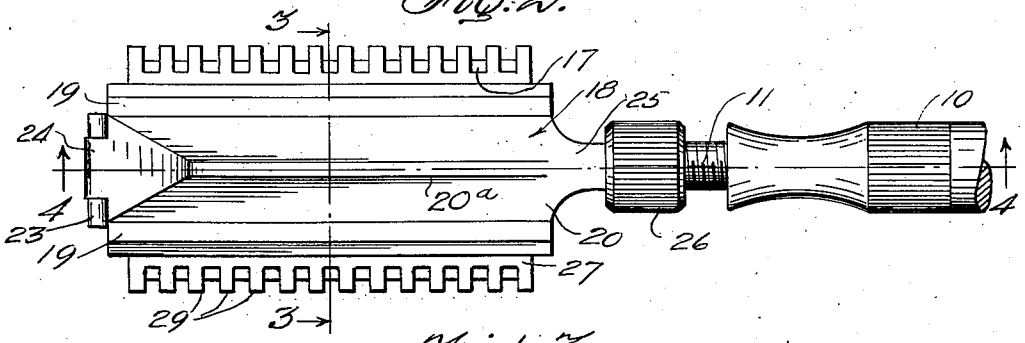


Fig. 3.

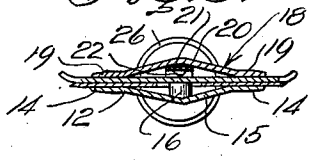


Fig. 4.

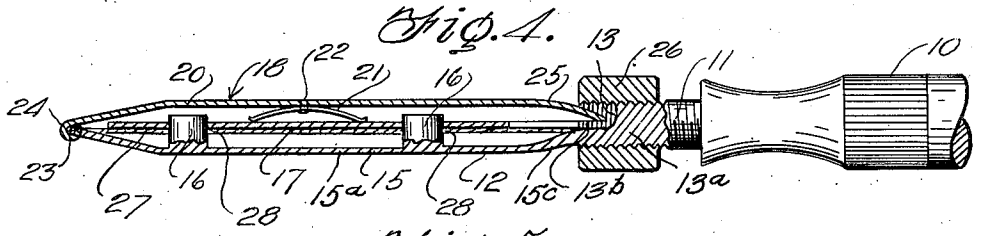
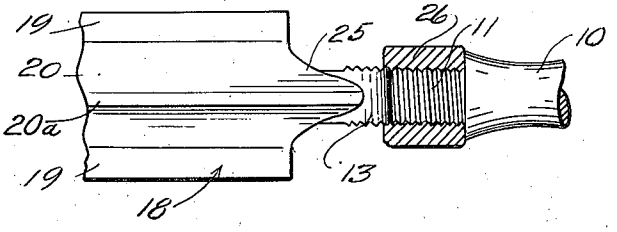


Fig. 5.



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SAFETY RAZOR

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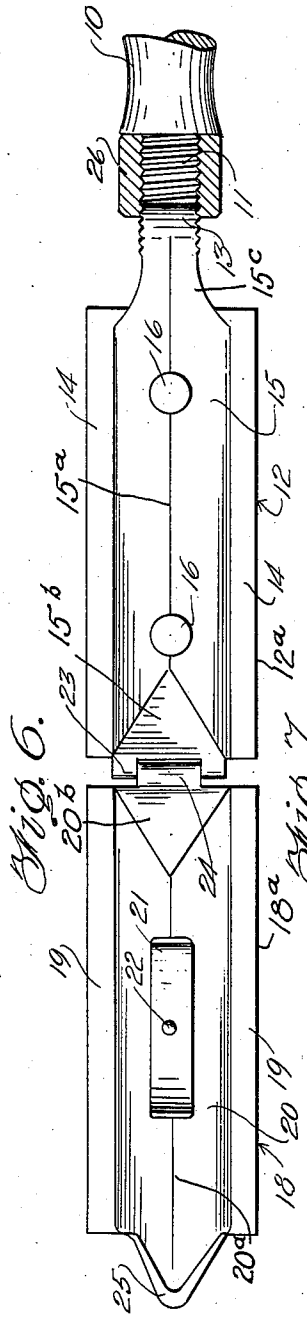


Fig. 6.

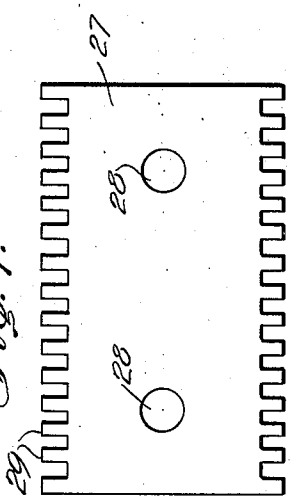


Fig. 7.

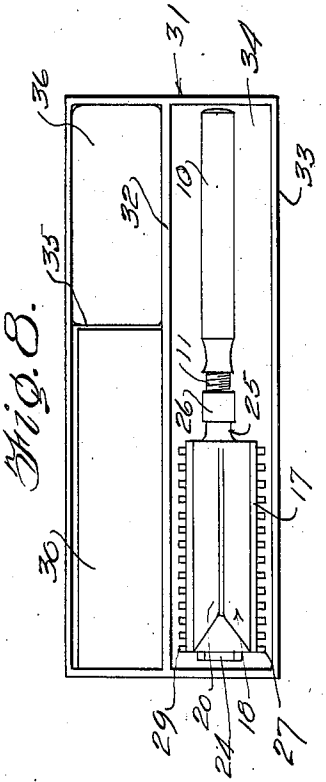


Fig. 8.

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UNITED STATES PATENT OFFICE

2,221,730

SAFETY RAZOR

Jack Vulich, Chicago, Ill., assignor of one-half to Martin Morris, Chicago, Ill.

Application November 7, 1938, Serial No. 239,367

1 Claim. (Cl. 30—53)

This invention relates to razor blade holders and more particularly to a holder for use with a double edged blade.

An object of this invention is to provide a combined holder and stropping device which is adapted to releasably hold a double edged razor blade, the device including a removable guard which when the device is used as a stropping member, is adapted to be removed from the holder.

A further object of this invention is to provide in a holder of this type a compensating or equalizing means for holding the razor blade between a pair of clamping members when the holder has the guard inserted therebetween or when the guard has been removed.

A still further object of this invention is to provide in a holder of this type an improved clamping means for the razor blade and the guard which is so constructed that various types of razor blades may be used with the holder.

To the above objects and to others which may hereinafter appear, the invention consists of the novel construction, combination and arrangement of parts as will be more specifically referred to and illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawings:

Figure 1 is a detail side elevation of a razor blade holder constructed according to an embodiment of this invention,

Figure 2 is an enlarged fragmentary side elevation of the holder,

Figure 3 is a sectional view taken on the line 3—3 of Figure 2,

Figure 4 is a sectional view partly in elevation taken on the line 4—4 of Figure 2,

Figure 5 is a fragmentary side elevation partly in section of the holder showing the clamping nut in released position,

Figure 6 is a fragmentary detail plan view of the holder in open position,

Figure 7 is a plan view of the guard removed from the holder, and

Figure 8 is a detail plan view of a receptacle for the holder, strop and razor blade receptacle.

With reference to the drawings the safety razor in accordance with this invention includes a handle 10 having a reduced stem or shank 11 having its outer periphery threaded throughout. The handle 10 at its forward end merges into the rear end of the stem 11. The forward terminal portion of the stem 11 is rabbeted, as at 13, to form what may be termed a forwardly directed tongue 13a of semi-circular contour having a flat upper face to provide the stem 11 with a seat 13b disposed diametrically of the stem on the transverse median of the latter.

The razor includes a fixed blade clamping or holding member 12 formed from sheet metal and consisting of what may be termed a substantially rectangular body 12a, in plan having a pair of oppositely disposed flat side portions 14 and a hollow V-shaped intermediate portion 15 merging at the bottom of its sides into the inner sides of the side portions 14. The apex of the portion 15 is indicated at 15a. The portion 15 has its forward end terminal part 15b of tapered contour which extends downwardly at an inward inclination from the forward end of the apex 15a to the forward end of portion 15. The forward end of the apex 15a merges into the upper or smallest terminus of the said part 15b. Extending from the rear end of said portion 15 is an inwardly inclined tapered extension 15c which at its rear end is integral with the forward end of the tongue 13a and does not extend above the seat 13a.

A pair of spaced parallel positioning pins 16 are integral with the inner face of the apex 15a of the said intermediate portion 15. The pins 16 are common to an apertured blade 17 and an apertured guard 27.

The razor includes a movable blade clamping or holding member 18, which is adapted to be disposed in superposed relation with respect to the member 12. The member 18 is formed from sheet metal and consists of what may be termed a substantially rectangular body 18a in plan having a pair of oppositely disposed narrow flat side portions 19 and a hollow V-shaped intermediate portion 20 merging at the bottom of its sides into the inner sides of the side portions 19. The apex of the portion 20 is indicated at 20a. The portion 20 has its forward end terminal part 20b of tapered contour which extends downwardly at an inward inclination from the forward end of apex 20a to the forward end of portion 20. The forward end of apex 20a merges into the upper or smallest terminus of the said part 20b. A relatively long bowed shaped spring 21 is secured by the fastening means 22 to the inner face of the apex 20a of portion 20. The spring 21 is of a length less than the distance between the studs 16. The spring 21 is for engaging the guard 27

when the members 12 and 18 are clamped together by a means to be referred to.

The forward end of the forward terminal part 15b of member 12 has fixed thereto a pintle 23, which is preferably integral with said part. The forward end of the forward terminal part 20b is provided with a hinge barrel 24 engaging about the pintle 23 whereby the members 12, 18 are hingedly connected together at their forward ends.

The intermediate V-shaped part, of the movable clamping member 18 at its forward or outer end is provided with a substantially V-shaped lug or extension 25 which as shown in Figure 4 is bent longitudinally and in the direction of the fixed clamping member 12. The extension 25 is of greater length than and projects rearwardly from the extension 15c on member 12. The reduced or apex portion of the lug 25 is adapted to engage on the seat 13b when the movable clamping member 18 is disposed in clamping position. A holding or tensioning nut or sleeve 26 of uniform diameter is threaded onto the stem 11 and is adapted when moved forwardly to engage the reduced or apex portion of the lug 25 so as to compress the spring 21 against the guard 27.

The guard 27 is formed with a pair of openings 28 which are to align with the openings in the blade 17 for the passage of the studs 16. The guard 27 is constructed from a substantially rectangular sheet of metal and is provided at its opposite longitudinal edges with spaced apart teeth 29 which are longitudinally curved as shown in Figure 3 so that the desired portion of the keen edges of the blade 17 will be exposed for use.

In the use of this device as a razor the guard member 27 is inserted between the clamping members 12 and 18 with the razor blade 17 and these two parts engaging the pins 16. The movable clamping member 19 may be swung to an open position similar to that shown in Figure 6 at which time the holder 27 and the blade 17 may be engaged with the pins 16.

The holder hereinbefore described is adapted to be placed in a receptacle or carrier generally designated as 31 which is of substantially rectangular configuration and is provided with a longitudinally extending partition 32 which is parallel to the side walls 33. The partition 32 divides the container or receptacle 31 into a holder chamber 34 and a second chamber 35 in which the strop or sharpening member 30 is adapted to engage and also a container 36 for holding razor blades. The container 31 may be provided with a suitable hinged cover (not shown) so that a relatively compact kit will be provided.

What I claim is:

In a safety razor, a fixed clamping member, a movable clamping member for disposing in superposed relation with respect to said fixed member, said members each including a hollow V-shaped intermediate portion terminating in a pair of oppositely disposed flat side portions, the said intermediate portions of said members having oppositely disposed tapered forward downwardly extending terminal parts inclining inwardly throughout from the forward ends of the apices of such portions to the forward ends of said members, a tapered inwardly inclined extension projecting rearwardly from the inner end of the intermediate portion of each member, the extension on said movable member being of greater length than and projecting rearwardly from the extension on said fixed member, handle means including a threaded shank having a rabbeted forward terminal portion merging into the rear end of the extension on said fixed member, said rabbeted portion forming a seat for the rear terminal portion of the said extension of greatest length, oppositely disposed interengaging means integral with and extended forwardly from the forward ends of the inclined forward terminal parts of said intermediate portions for hinging said members together, studs integral with the inner face of the apex of the intermediate portion of said fixed member, an apertured blade having its sides seated on and extended from the side portions of the fixed member, an apertured guard seated on said blade engaged solely by and disposed in extended relation with respect to the side portions of the movable member and beyond said blade, said studs extending through said blade and guard, a bow-shaped spring secured to the inner face of the apex of the intermediate portion of said movable member and bearing on said guard, and an adjustable revoluble interiorly threaded sleeve of uniform diameter carried by and threadedly engaging with said handle shank for releasably binding the rear terminal portion of the extension on the movable member against said seat to thereby detachably clamp said members to said blade and guard.

JACK VULICH.